

REMARKS

The Office Action mailed February 13, 2007 has been reviewed and carefully considered. Claims 1-31 were acknowledged as being allowed. Claim 32 has been amended. Claims 1-32 are pending. Reconsideration of the claims in view of the remarks provided herein below and withdrawal of the present rejections are respectfully requested.

In paragraph 2 on page 2 of the Office Action, claim 32 was rejected under § 102(b) as being anticipated by Azenkot et al.

Applicants respectfully traverse the rejection, but in the interest of expediting prosecution have amended claim 32. Applicants respectfully submit that Azenkot et al. fail to disclose, teach or suggest all of the limitations recited in amended claim 32.

Independent claim 32 recites means for shaping a channel impulse response to a lengthened equalization target. Azenkot et al. fail to mention a lengthened equalization target.

Independent claim 32 also recites means for convoluting a first and a second transfer function. Azenkot et al. fail to mention convoluting a first and a second transfer function.

Independent claim 32 also recites a second transfer function. The second transfer function provides a matched filter function of a time-reversed component that is a time-reversed replica of a whitening filter component of the lengthened equalization target. Azenkot et al. fail to mention a time-reversed replica of a whitening filter component. Moreover, as mentioned above, Azenkot et al. fail a lengthened equalization target. Thus, Azenkot et al. fail to disclose, teach or suggest provides a matched filter function of a time-reversed replica of a whitening filter component of the lengthened equalization target.

In fact, Azenkot et al. only mentions minimizing the effects of additive white Gaussian noise, not a filter that converts a given signal to a signal having a flat power spectral density, i.e., white noise, over a defined frequency band. .

Accordingly, Applicants respectfully submit that claim 32, as amended, is patentable over Azenkot et al.

On the basis of the above amendments and remarks, it is respectfully submitted that the claims are in immediate condition for allowance. Accordingly, reconsideration of this application and its allowance are requested.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Attorney for Applicant, David W. Lynch, at 423-757-0264.

Respectfully submitted,

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